BRUHATH BANGALORE MAHANAGARA PALIKE

Yalahanka ELECTRICAL DIVISION

PRE MEASUREMENT BOOK

Name of work :-Annual Maintenance and repairs of street lights in ward no 02 Package Y -02 of Yelahanka Zone.

Name of Contractror of nature of Agency:-M/S. Suraksha Electrical

Job Code No:-002-22-000008

Ref no and Date of commencement of work:-:- EE/Ele/YZ//WO/000002 /22-23 Date:01/04/2022

Aggrement No & date:-

Measurement Book No: **Page No:**

Bill NO :-Bill NO :- 13th RA Bill **Bill Period : 01-12-2023 to 31-12-2023 (for 1 months)**

Sl. No.		Unit	Period in Months	Present Measurements		
				Qty	Tender Full Rate	Cost
1	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 36/40 W fluorescent tube light street lighting systems.	Each	1	5	57.12	285.60
2	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 125 W HPMV light Park lighting systems.	Each	1	109	63.02	6869.18
3	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 250W HPSV street light lighting systems.	Each	1	2106	84.93	178862.58
4	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 400 watts HPSV street light/High Mast lighting systems.	Each	1	0	93.17	0.00
5	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 24 watt LED park	Each	1	223	73.33	16352.59
6	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 65 watt LED	Each	1	198	95.61	18930.78

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Executive Engineer
Electrical Division
Yelahanka Zone BBMP
Byatarayanapura, Bangalore-92

7	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 90 watt LED	Each	1	0	114.80	0.00
8	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 110/120 watt LED	Each	1	0	131.29	0.00
9	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 150 watt LED	Each	1	0	155.95	0.00
10	Painting of existing street light pole after scrapping the old paint and painted with suitable colour enamel/Silver paint including coping/footing of the pole Upto 5Mtr street light pole	Nos	-	0	550.00	0.00
11	Painting of existing street light pole after scrapping the old paint and painted with suitable colour enamel/Silver paint including coping/footing of the pole 8Mtr and above street light pole	Nos	-	0	770.00	0.00
12	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) 100Amps 25kA. 3 Pole	Each	-	8	4530.00	36240.00
13	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop- Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/ Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.260mmx210mmx116mm	Each	-	8	2054.00	16432.00

	Pole Number	Address	Nos
	SE/02/TC104/BL/01/00/04/S	# 78, 1st main, Balaji Layout	1
	SE/02/TC/RIMR/00/12/S	1st main,Kenchenahalli road	1
	SE/02/TC74/KH/00/01/07/S	# 17A,1st main,Kenchenahalli	1
	SE/02/TC74/KH/00/09/14/S	# 119,9th Cross,Sainik Vihar Layout	1
	SE/02/TC193/HH/00/02/01/S/2	# 4B,Harohalli Village	1
	SE/02/TC193/IC/00/07/LED	# 104,3rd Main Naidu layout	1
	SE/02/TC/SL/00/01/14/S	# 48, 8th Main, Susheelamma layout	1
	SE/02/TC07/SE/00/01/05/LED	1st Main Main, Suryavamshi layout	1
		Total	8

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14	Supply of LED pole mounting type post top lantern with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/ clear glass material, delivering superior light output.Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/Overload, short circuit/ miss-wiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB . LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in- house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED			Nos	-	0	6400.00	0.00
15	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.100 to			Nos	-	7	7200.00	50400.00
	Pole Number	**Address**	**Nos**					
	New Pole	Navachetana Hospital Doddaballapura Main road	1					
	New Pole	Govt Schoool Puttenahalli Main road	1					
	New Pole	Kendriya Vidyalaya Near CRPF D B Road	1					
	New Pole	Nagenahalli Layout Near Shiva temple	1					
	New Pole	1st Main Susheelamma Layout Ananthpura	1					
	New Pole	Opp BMS Collage Near Yellow Café	1					
	New Pole	Opp Vajram Tiara Apartment DB road Main road	1					
		Total	7					
16	Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts, nuts and washers.			Each	-	7	4030.00	28210.00
	Pole Number	**Address**	**Nos**					
	SE/02/TC104/BL/01/00/11/S	# 108, 1st Main, Balaji Layout	1					
	SE/02/TC74/KH/09/00/09/0	9th Main, Sainik Vihar Layout	1					
	SE/02/TC183/HMR/00/24/S	4th Cross Harohalli main road	1					
	SE/02/TC93/IL/00/07/10/LED	8th Main, Near Veeranjaneya Temple ISRO Layout	1					
	SE/02/TC93/IL/00/08/14/S	4th Cross ISRO Layout	1					
	SE/02/TC94/SL/01/00/05/S	# 106, Susheelamma Layout	1					
	SE/02/TC37/CL/00/03/02/S	3rd Cross Chowdeshwari	1					
	SE/02/TC/NH/00/06/15/S	6th Cross Nagenahalli Village	1					
		Total	7					
17	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 50-63 Amps SP			Each	-	9	723.00	6507.00
	Pole Number	**Address**	**Nos**					
	SE/02/TC193/IL/00/08/39/LED	1st Cross ISRO Layout	1					
	SE/02/TC193/IL/00/09/08/0	9th Main road ISRO Layout	1					

Assistant Executive Engineer (Ele)
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	SE/02/TC193/IL/00/08/10/0	5th Main road ISRO Layout	1					
	SE/02/TC193/IL/01/00/09/LED	# 818, 1st Main road ISRO Layout Boys Hostel	1					
	SE/02/TC193/IL/01/00/05/S	1st Main road ISRO Layout	1					
	SE/02/TC193/IL/00/07/25/LED	7th Cross ISRO Layout	1					
	SE/02/TC193/IL/00/07/01/LED	6th Cross ISRO Layout	1					
	SE/02/TC/VL/00/01/03/LED	Vinayaka Layout	1					
	SE/02/TC216/00/14/04/LED	14th Cross Kondappa Layout	1					
		Total	9					
	TOTAL							**221300.73**
	Add GST 18 % = 12%+6% on item no 1-9					-12%	26556.09	194744.64
						18+	35054.04	**229798.68**
	Total Rs item no 10-20							137789.00
	Add GST 18 % on item no 10-17							24802.02
	TOTAL Rs							392389.70
	Fine imposed for non burning of street lights For the period of 1/12/2023 to 31/12/2023							2500.00
	As per street light agreement clause 2% will be deducted in monthly maintenance bill against the released scrap material							4595.97
	GRAND TOTAL							385293.72

CERTIFICATE

1.This is to certify that the work done is saticefactorily.

2.This is to certify that the bill amount calimed in this bill does not claimed in any of the previous bill.

Junior Engineer(Elec)
Yalahanka Division

Asst.Exe.Engineer(Elec)
Yalahanka Division